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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:331993 CAPLUS

DOCUMENT NUMBER: 138:354135

TITLE: Preparation of 17-chloro-D-homosteroid as selective estrogen receptor antagonists

INVENTOR(S): Tornus, Ingo; Ring, Sven; Schubert, Gerd

PATENT ASSIGNEE(S): Schering AG, Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10151365	A1	20030430	DE 2001-10151365	20011017
WO 2002068548	A1	20020906	WO 2002-EP2117	20020227
WO 2002068548	C2	20030220		
WO 2002068548	A3	20030605		
			W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, -FI-, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JE, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	
US 2003083377	A1	20030501	US 2002-38685	20020227

PRIORITY APPLN. INFO.: US 2001-271409P P 2001027

DE 2001-10151365 A 20011017

US 2001-329736P P 20011018

OTHER SOURCE(S): CASREACT 138:354135; MARPAT 138:354135

AB The present invention discloses prepn. of 17-chloro-D-homosteroids, e.g., I [R1 = H, Cl-6-alkanoyl, COPh; R2 = Cl-6-alkyl; R3 = H, Cl-6-alkyl, Cl-6-alkanoyl, COPh; R4 = H, Cl-6-alkyl, fluorooalkyl, C.tpbond.CRS; R5 = H, Cl-6-alkyl, (un)substituted phenyl], for their use as selective estrogen receptor antagonists. Thus, I [R1 = R3 = H, R2 = Et, R4 = CH2C.tpbond.CH] was prepnd. from 3-methoxy-18a-homoestra-1,3,5(10)-trien-17-beta-ol via Jones oxidn., enol silylation, ring expansion with sodium trichloroacetate. The new compds. are suitable for contraception with men and women, without affecting other estrogenic-sensitive organs like the uterus or the liver. They are also suitable for the treatment of benign or malignant proliferative illnesses of the ovaries, like ovarian carcinomas and Granulosa cell tumors.

IT 454485-63-3

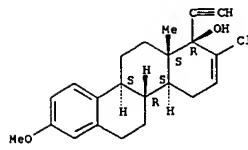
RL: RCT (Reactant); RACT (Reactant or reagent)
(O-demethylation of) prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists

RN 454485-63-3 CAPLUS

CN 1-Chrysenol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



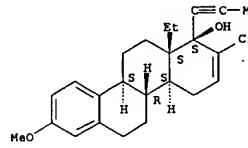
IT 454485-57-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepnd. and O-demethylation of) prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists

RN 454485-57-5 CAPLUS

CN 1-Chrysenol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



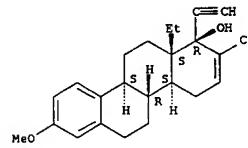
IT 454485-55-3

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepnd. and O-demethylation of) prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists

RN 454485-55-3 CAPLUS

CN 1-Chrysenol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

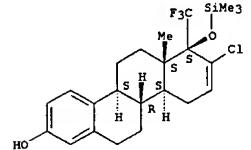
IT 454485-60-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepnd. and desilylation of) prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists

RN 454485-60-0 CAPLUS

CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12,12a-decahydro-6a-methyl-7-(trifluoromethyl)-7-(trimethylsilyloxy)-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



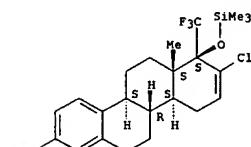
IT 454485-61-1P 454485-62-2P 454485-64-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepnd. and reductive demethylation of) prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists

RN 454485-61-1 CAPLUS

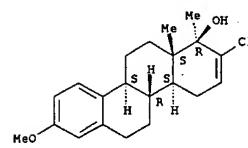
CN Silane, [(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(trifluoromethyl)-1-chrysenylloxy]trimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 454485-62-2 CAPLUS
CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

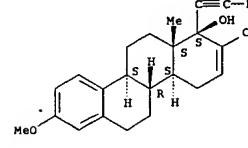
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-64-4 CAPLUS

CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 454485-33-7P 454485-34-8P 454485-36-0P

454485-37-1P 454485-38-2P 454485-39-3P
454485-40-6P 454485-41-7P 454485-42-8P454485-43-9P 454485-44-0P 454485-45-1P
454485-46-2P 454485-47-3P 454485-48-4P454485-49-5P 454485-52-0P 454485-53-1P
454485-54-2P 518045-83-5P 518045-85-7P
518045-86-8P

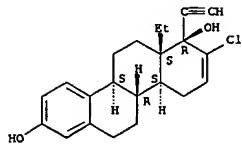
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepnd. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)

RN 454485-33-7 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

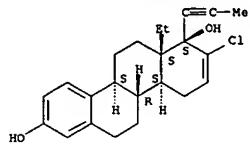
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



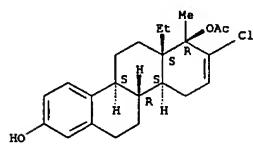
RN 454485-34-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-36-0 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-methyl-, 1-acetate, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

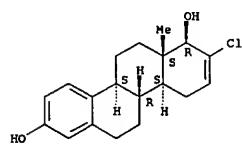
Absolute stereochemistry.



RN 454485-37-1 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

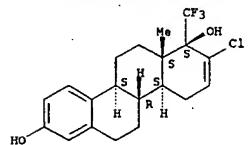
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



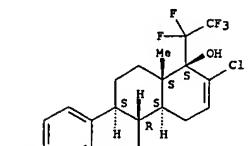
RN 454485-41-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 454485-42-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

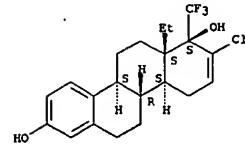
Absolute stereochemistry.



RN 454485-43-9 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

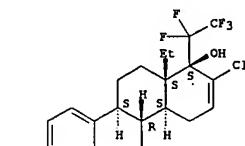
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



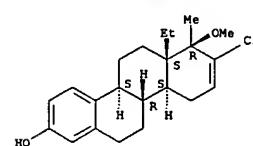
RN 454485-38-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-39-3 CAPLUS
 CN 2-Chrysenediol, 8-chloro-6a-ethyl-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-7-methyl-, (4bS,6aS,7aR,10aS,10bR)- (9CI) (CA INDEX NAME)

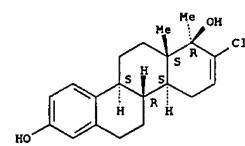
Absolute stereochemistry.



RN 454485-40-6 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

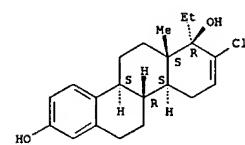
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



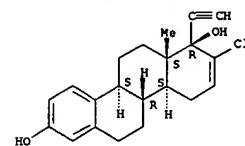
RN 454485-44-0 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-45-1 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

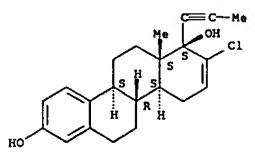
Absolute stereochemistry. Rotation (-).



RN 454485-46-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

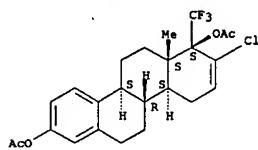
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



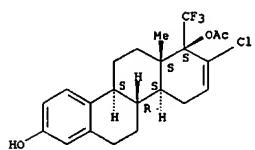
RN 454485-47-3 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, diacetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

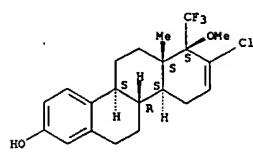


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 CN 1,8-Chrysenediol, 2-chloro-1,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, 1-acetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

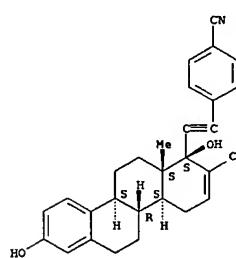


RN 454485-49-5 CAPLUS
 CN 2-Chrysenedol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-6a-methyl-7-(trifluoromethyl)-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 Absolute stereochemistry.

RN 454485-52-0 CAPLUS
 CN Benzonitrile, 4-[(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenedyl]ethynyl- (9CI) (CA INDEX NAME)

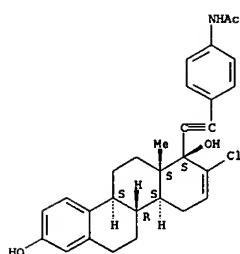
Absolute stereochemistry.



RN 454485-53-1 CAPLUS
 CN Acetamide, N-[4-[(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenedyl]phenyl]- (9CI) (CA INDEX NAME)

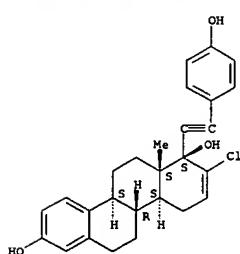
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-54-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4a,4b,5,6,10b,11,12,12a-decahydro-1-{(4-hydroxyphenyl)ethynyl}-12a-methyl-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

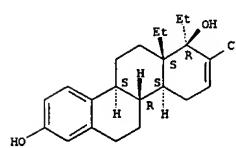
Absolute stereochemistry.



RN 518045-83-5 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,12a-diethyl-1,4a,4b,5,6,10b,11,12,12a-decahydro-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

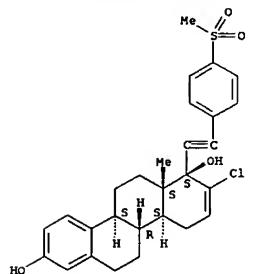
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



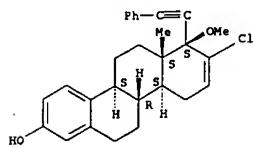
RN 518045-85-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-{[(methylsulfonyl)phenyl]ethynyl}-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 518045-86-8 CAPLUS
 CN 2-Chrysenedol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-6a-methyl-7-(phenylethynyl)-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:676115 CAPLUS
 DOCUMENT NUMBER: 137:196043
 TITLE: Synthesis and use of 17-chloro-D-homosteroids as
 ER.beta.-selective ligands for regulating fertility
 and treating ovarian disease
 INVENTOR(S): Hegele-Hartung, Christa; Fritzeimer, Karl-Heinrich;
 Yamamoto, Hiroshi; Peters, Olaf; Kossmund, Dirk;
 Mueller, Gerda; Tornus, Ingo; Schubert, Gerd
 PATENT ASSIGNEE(S): Scheune Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002068548	A1	20020906	WO 2002-EP2117	20020227
WO 2002068548	C2	20030220		
WO 2002068548	A3	20030605		
$W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, ER, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KR, XK, XZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZH, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM$ $RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZA, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE, BJ, CF, CG, CI, CR, GA, GN, GO, GW, HL, MA, NE, SN, TD, TG$				
DE 10151365	A1	20030430	DE 2001-10151365	20011017
PRIORITY APPLN. INFO.: US 2001-271409P P 20010227				
DE 2001-10151365 A P 20011017				
US 2001-329736P P 20011018				

OTHER SOURCE(S): MARPAT 137:196043
 AB The present invention relates to the use of a new principle for (a) improving pregnancy potential with ER.beta.-agonists in connection with in vivo treatment and in connection with in vitro fertilization (IVF) and embryo transfer treatment and (b) inhibiting pregnancy potential with ER.beta.-antagonists. More specifically, the application relates to (a) improvement of pregnancy potential of oocytes and preimplantational embryos by improvement and stimulation of ovarian folliculogenesis and (b) inhibition of pregnancy potential by inhibiting folliculogenesis. This present invention relates further to new compds. as pharmaceutical active ingredients, which have in vitro a higher affinity to estrogen receptor preps. of rat prostates than to estrogen receptor preps. of rat uterus and exert a contraceptive action in vivo by their preferential action on the ovary, to their prodn., their therapeutic application and pharmaceutical forms for dispensing that contain the new compds. The chem. compds. are novel, steroidol, tissue-selective antiestrogens, specifically 17-chloro-D-homosteroids.
 IT 454485-33-7P 454485-34-8P 454485-35-9P
 454485-36-0P 454485-37-1P 454485-38-2P
 454485-39-3P 454485-40-6P 454485-41-7P
 454485-42-8P 454485-43-9P 454485-44-0P

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

454485-45-1P 454485-46-2P 454485-47-3P
 454485-48-4P 454485-49-5P 454485-50-8P
 454485-51-9P 454485-52-0P 454485-53-1P
 454485-54-2P

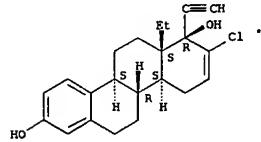
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease)

RN 454485-33-7 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

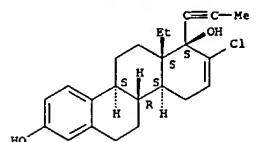
Absolute stereochemistry. Rotation (-).



RN 454485-34-8 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

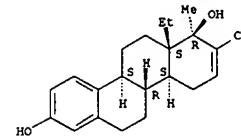


RN 454485-35-9 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-methyl-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

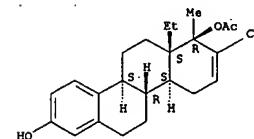
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-36-0 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-methyl-, 1-acetate, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

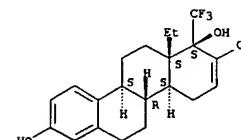
Absolute stereochemistry.



RN 454485-37-1 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

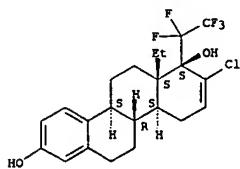


RN 454485-38-2 CAPLUS

CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

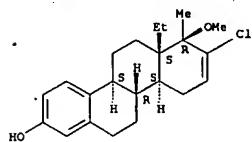
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



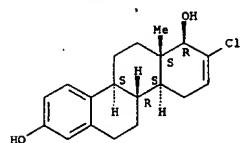
RN 454485-39-3 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-6-ethyl-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-7-methyl-, (4bS,6aS,7R,10aS,10bR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-40-6 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

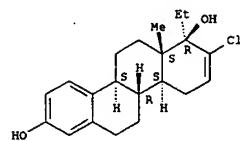
Absolute stereochemistry.



RN 454485-41-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

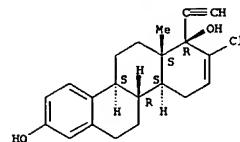
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Absolute stereochemistry.



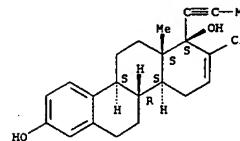
RN 454485-45-1 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



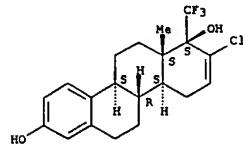
RN 454485-46-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



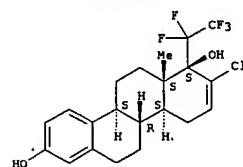
RN 454485-47-3 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, diacetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 Absolute stereochemistry. Rotation (-).

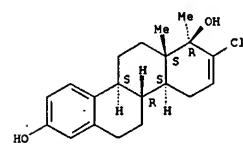
RN 454485-42-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-43-9 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

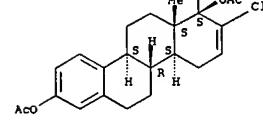
Absolute stereochemistry. Rotation (-).



RN 454485-44-0 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

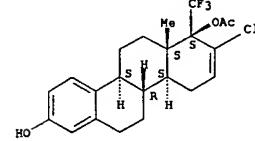
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Absolute stereochemistry.



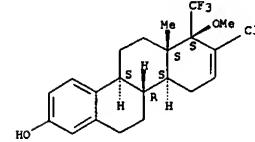
RN 454485-48-4 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, 1-acetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-49-5 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, diacetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

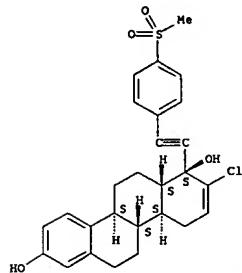
Absolute stereochemistry.



RN 454485-50-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(4-methylsulfonyl)phenyl-ethynyl-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

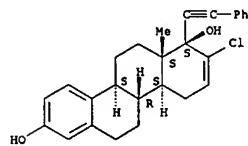
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-51-9 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(phenylethynyl)-, (15,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

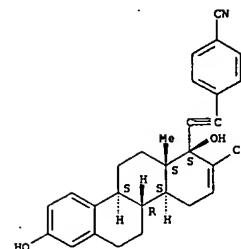
Absolute stereochemistry.



RN 454485-52-0 CAPLUS
 CN Benzonitrile, 4-[(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenyl]ethynyl- (9CI) (CA INDEX NAME)

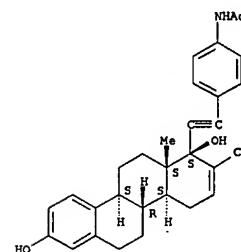
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-53-1 CAPLUS
 CN Acetamide, N-[(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenyl]ethynylphenyl- (9CI) (CA INDEX NAME)

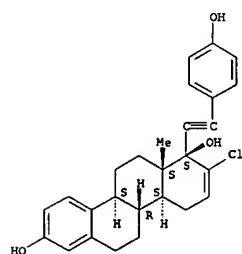
Absolute stereochemistry.



RN 454485-54-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-[(4-hydroxyphenyl)ethynyl]-12a-methyl-, (15,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

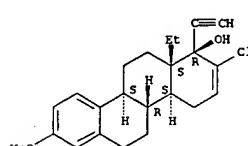
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



IT 454485-55-3 454485-62-2 454485-63-3
 454485-64-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease)

RN 454485-55-3 CAPLUS
 1-Chrysenol, 2-chloro-12a-ethyl-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

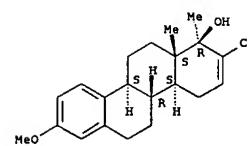
Absolute stereochemistry.



RN 454485-62-2 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1,12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

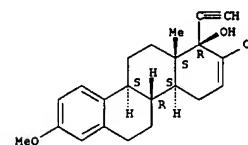
Absolute stereochemistry. Rotation (-).

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



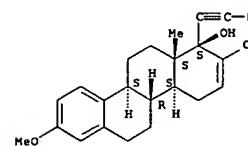
RN 454485-63-3 CAPLUS
 1-Chrysenol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-64-4 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

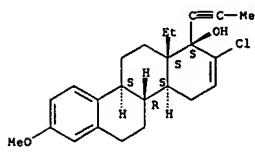


IT 454485-57-5 454485-59-7P 454485-60-0P
 454485-61-1P
 RL: RCT (Reactant); SP (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease)

RN 454485-57-5 CAPLUS
 1-Chrysenol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

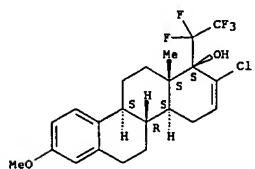
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



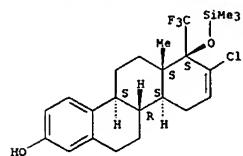
RN 454485-59-7 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-60-0 CAPLUS
 CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-6a-methyl-7-(trifluoromethyl)-7-[(trimethylsilyl)oxy]-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

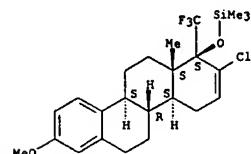
Absolute stereochemistry. Rotation (-).



RN 454485-61-1 CAPLUS
 CN Silane, [(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 decahydro-8-methoxy-12a-methyl-1-(trifluoromethyl)-1-chrysenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:27:54 ON 05 AUG 2003)

FILE 'REGISTRY' ENTERED AT 14:28:11 ON 05 AUG 2003

L1 STRUCTURE uploaded

L2 2 S L1

L3 33 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:28:54 ON 05 AUG 2003

L4 2 S L3

FILE 'USPATFULL' ENTERED AT 14:34:32 ON 05 AUG 2003

L5 1 S L3

L6 0 S L5 NOT L4

FILE 'BEILSTEIN' ENTERED AT 14:34:48 ON 05 AUG 2003

L7 0 S L1 FULL